

Tianxiao Li

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

1,485
citations

361296

20
h-index

395590

33
g-index

79
all docs

79
docs citations

79
times ranked

1084
citing authors

#	ARTICLE	IF	CITATIONS
1	An optimal modelling approach for managing agricultural water-energy-food nexus under uncertainty. <i>Science of the Total Environment</i> , 2019, 651, 1416-1434.	3.9	185
2	Effects of biochar addition on soil hydraulic properties before and after freezing-thawing. <i>Catena</i> , 2019, 176, 112-124.	2.2	95
3	Characteristics of Propagation From Meteorological Drought to Hydrological Drought in the Pearl River Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033959.	1.2	78
4	Investigating the Propagation From Meteorological to Hydrological Drought by Introducing the Nonlinear Dependence With Directed Information Transfer Index. <i>Water Resources Research</i> , 2021, 57, e2021WR030028.	1.7	66
5	Effects of biochar application during different periods on soil structures and water retention in seasonally frozen soil areas. <i>Science of the Total Environment</i> , 2019, 694, 133732.	3.9	46
6	A Novel Method for Agricultural Drought Risk Assessment. <i>Water Resources Management</i> , 2019, 33, 2033-2047.	1.9	41
7	Effect of snow-straw collocation on the complexity of soil water and heat variation in the Songnen Plain, China. <i>Catena</i> , 2019, 172, 190-202.	2.2	40
8	The functions of soil water and heat transfer to the environment and associated response mechanisms under different snow cover conditions. <i>Geoderma</i> , 2018, 325, 9-17.	2.3	39
9	Agricultural Multi-Water Source Allocation Model Based on Interval Two-Stage Stochastic Robust Programming under Uncertainty. <i>Water Resources Management</i> , 2018, 32, 1261-1274.	1.9	37
10	Projection Pursuit Evaluation Model of Regional Surface Water Environment Based on Improved Chicken Swarm Optimization Algorithm. <i>Water Resources Management</i> , 2018, 32, 1325-1342.	1.9	36
11	An interval parameter conditional value-at-risk two-stage stochastic programming model for sustainable regional water allocation under different representative concentration pathways scenarios. <i>Journal of Hydrology</i> , 2018, 564, 115-124.	2.3	36
12	Characteristics of water-heat variation and the transfer relationship in sandy loam under different conditions. <i>Geoderma</i> , 2019, 340, 259-268.	2.3	34
13	Optimization of agricultural water-food-energy nexus in a random environment: an integrated modelling approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 3-19.	1.9	33
14	Characteristics of greenhouse gas emissions from farmland soils based on a structural equation model: Regulation mechanism of biochar. <i>Environmental Research</i> , 2022, 206, 112303.	3.7	31
15	Projected Changes of Future Extreme Drought Events under Numerous Drought Indices in the Heilongjiang Province of China. <i>Water Resources Management</i> , 2017, 31, 3921-3937.	1.9	30
16	Application of Particle Swarm Optimization and Extreme Learning Machine Forecasting Models for Regional Groundwater Depth Using Nonlinear Prediction Models as Preprocessor. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018, 23, .	0.8	30
17	Biochar application for the improvement of water-soil environments and carbon emissions under freeze-thaw conditions: An in-situ field trial. <i>Science of the Total Environment</i> , 2020, 723, 138007.	3.9	28
18	The effect on soil nitrogen mineralization resulting from biochar and straw regulation in seasonally frozen agricultural ecosystem. <i>Journal of Cleaner Production</i> , 2020, 255, 120302.	4.6	26

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19	Precipitation Complexity Measurement Using Multifractal Spectra Empirical Mode Decomposition Detrended Fluctuation Analysis. <i>Water Resources Management</i> , 2016, 30, 505-522.	1.9	23
20	Adaptive Allocation Modeling for a Complex System of Regional Water and Land Resources Based on Information Entropy and its Application. <i>Water Resources Management</i> , 2015, 29, 4977-4993.	1.9	22
21	Effects of soil water and heat relationship under various snow cover during freezing-thawing periods in Songnen Plain, China. <i>Scientific Reports</i> , 2018, 8, 1325.	1.6	22
22	Research on the adsorption mechanism of Cu and Zn by biochar under freeze-thaw conditions. <i>Science of the Total Environment</i> , 2021, 774, 145194.	3.9	22
23	The Application of a Water Rights Trading Model Based on two-Stage Interval-Parameter Stochastic Programming. <i>Water Resources Management</i> , 2016, 30, 2227-2243.	1.9	21
24	Effects of straw mulching on soil evaporation during the soil thawing period in a cold region in northeastern China. <i>Journal of Earth System Science</i> , 2018, 127, 1.	0.6	20
25	Two-Stage Multi-Water Sources Allocation Model in Regional Water Resources Management under Uncertainty. <i>Water Resources Management</i> , 2017, 31, 3607-3625.	1.9	16
26	A new infiltration model for simulating soil water movement in canal irrigation under laboratory conditions. <i>Agricultural Water Management</i> , 2019, 213, 433-444.	2.4	16
27	Short-term influence of biochar on soil temperature, liquid moisture content and soybean growth in a seasonal frozen soil area. <i>Journal of Environmental Management</i> , 2020, 266, 110609.	3.8	16
28	Stream flow variability and drought severity in the Songhua River Basin, Northeast China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1225-1242.	1.9	15
29	Effects of land use change and climate variability on streamflow in the Woken River basin in Northeast China. <i>River Research and Applications</i> , 2019, 35, 121-132.	0.7	15
30	Spatial variability and possible cause analysis of regional precipitation complexity based on optimized sample entropy. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 3384-3398.	1.0	15
31	Assessment of precipitation variability and uncertainty of stream flow in the Hindu Kush Himalayan and Karakoram River basins of Pakistan. <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 127-136.	0.9	14
32	Measurement and analysis of regional flood disaster resilience based on a support vector regression model refined by the selfish herd optimizer with elite opposition-based learning. <i>Journal of Environmental Management</i> , 2021, 300, 113764.	3.8	14
33	Effect of biochar application on freezing-thawing deformation of farmland soil during freeze-thaw cycling. <i>Geoderma</i> , 2022, 405, 115510.	2.3	14
34	Effects of different biochar application methods on soybean growth indicator variability in a seasonally frozen soil area. <i>Catena</i> , 2020, 185, 104307.	2.2	13
35	Effects of biochar and straw application on the soil structure and water-holding and gas transport capacities in seasonally frozen soil areas. <i>Journal of Environmental Management</i> , 2022, 301, 113943.	3.8	13
36	Biochar impacts on the soil environment of soybean root systems. <i>Science of the Total Environment</i> , 2022, 821, 153421.	3.9	13

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37	Regional food security risk assessment under the coordinated development of water resources. <i>Natural Hazards</i> , 2015, 78, 603-619.	1.6	12
38	Effects of Biochar on Sediment Transport and Rill Erosion after Two Consecutive Years of Seasonal Freezing and Thawing. <i>Sustainability</i> , 2021, 13, 6984.	1.6	12
39	Two-Stage Interval-Parameter Stochastic Programming Model Based on Adaptive Water Resource Management. <i>Water Resources Management</i> , 2016, 30, 2097-2109.	1.9	11
40	Analysis of Irrigation Water Use Efficiency Based on the Chaos Features of a Rainfall Time Series. <i>Water Resources Management</i> , 2017, 31, 1961-1973.	1.9	11
41	The Critical Depth of Freeze-Thaw Soil under Different Types of Snow Cover. <i>Water (Switzerland)</i> , 2017, 9, 370.	1.2	11
42	A drought index for Rainfed agriculture: The Standardized Precipitation Crop Evapotranspiration Index (SPCEI). <i>Hydrological Processes</i> , 2019, 33, 803-815.	1.1	11
43	Rice Irrigation Schedule Optimization Based on the AquaCrop Model: Study of the Longtougiao Irrigation District. <i>Water (Switzerland)</i> , 2019, 11, 1799.	1.2	11
44	Adaptive management of water resources based on an advanced entropy method to quantify agent information. <i>Journal of Hydroinformatics</i> , 2019, 21, 381-396.	1.1	11
45	Snow melting water infiltration mechanism of farmland freezing-thawing soil and determination of meltwater infiltration parameter in seasonal frozen soil areas. <i>Agricultural Water Management</i> , 2021, 258, 107165.	2.4	11
46	Risk assessment of the city water resources system based on Pansystems Observation-Control Model of Periphery. <i>Natural Hazards</i> , 2014, 71, 1899-1912.	1.6	10
47	Multi-scale research of time and space differences about ecological footprint and ecological carrying capacity of the water resources. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	10
48	Effect of Biochar on Soil and Water Loss on Sloping Farmland in the Black Soil Region of Northeast China during the Spring Thawing Period. <i>Sustainability</i> , 2021, 13, 1460.	1.6	10
49	Application of an improved multifractal detrended fluctuation analysis approach for estimation of the complexity of daily precipitation. <i>International Journal of Climatology</i> , 2021, 41, 4653-4671.	1.5	9
50	Soil infiltration characteristics and pore distribution under freezing–thawing conditions. <i>Cryosphere</i> , 2021, 15, 2133-2146.	1.5	9
51	Risk analysis and influencing factors of drought and flood disasters in China. <i>Natural Hazards</i> , 2022, 110, 1599-1620.	1.6	9
52	Study on the Optimization of Dry Land Irrigation Schedule in the Downstream Songhua River Basin Based on the SWAT Model. <i>Water (Switzerland)</i> , 2019, 11, 1147.	1.2	8
53	Regulation of Cu and Zn migration in soil by biochar during snowmelt. <i>Environmental Research</i> , 2020, 186, 109566.	3.7	8
54	Variability of Soil Water Heat and Energy Transfer Under Different Cover Conditions in a Seasonally Frozen Soil Area. <i>Sustainability</i> , 2020, 12, 1782.	1.6	8

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55	Multifractal Detrended Fluctuation Analysis of Regional Precipitation Sequences Based on the CEEMDAN-WPT. <i>Pure and Applied Geophysics</i> , 2018, 175, 3069-3084.	0.8	7
56	Analysis of Irrigation Canal System Characteristics in Heilongjiang Province and the Influence on Irrigation Water Use Efficiency. <i>Water (Switzerland)</i> , 2018, 10, 1101.	1.2	7
57	A Simulation-Based Linear Fractional Programming Model for Adaptable Water Allocation Planning in the Main Stream of The Songhua River Basin, China. <i>Water (Switzerland)</i> , 2018, 10, 627.	1.2	7
58	Assessment of characteristics and distinguished hydrological periods of a river regime. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	7
59	Complexity measurement of regional groundwater resources system using improved Lempel-Ziv complexity algorithm. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	6
60	EMD-RBFNN Coupling Prediction Model of Complex Regional Groundwater Depth Series: A Case Study of the Jiansanjiang Administration of Heilongjiang Land Reclamation in China. <i>Water (Switzerland)</i> , 2016, 8, 340.	1.2	5
61	Complexity measure of regional seasonal precipitation series based on wavelet entropy. <i>Hydrological Sciences Journal</i> , 2017, 62, 2531-2540.	1.2	5
62	Inventory Theory-Based Stochastic Optimization for Reservoir Water Allocation. <i>Water Resources Management</i> , 2019, 33, 3873-3898.	1.9	5
63	Temporal-Spatial Distribution Characteristics and Influencing Factors of Regional Agricultural Water Requirement Indicators. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2019, 145, 04019019.	0.6	5
64	An Evaluation of the Resilience of the Regional Agricultural Water and Soil Resource System in Heilongjiang Province, China. <i>Agricultural Research</i> , 2018, 7, 311-320.	0.9	4
65	Analysis of characteristic snow parameters and associated factors in a cold region in northeast China. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 511-518.	1.0	4
66	The effect of biochar on the water-soil environmental system in freezing-thawing farmland soil: The perspective of complexity. <i>Science of the Total Environment</i> , 2022, 807, 150746.	3.9	4
67	Characteristics of snowmelt transport in farmland soil in cold regions: The regulatory mechanism of biochar. <i>Hydrological Processes</i> , 2022, 36, .	1.1	4
68	Study of the water saving potential of an irrigation area based on a remote sensing evapotranspiration model. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	3
69	How soil texture, channel shape and cross-sectional area affect moisture dynamics and water loss in irrigation channels. <i>Hydrological Processes</i> , 2021, 35, e14155.	1.1	3
70	Effect of the Number of Leaves in Submerged Aquatic Plants on Stream Flow Dynamics. <i>Water (Switzerland)</i> , 2019, 11, 1448.	1.2	2
71	Study of the spatiotemporal variability in agricultural drought vulnerability based on a dynamic classification projection pursuit model. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	2
72	Effects of land use and climate variability on the main stream of the Songhua River Basin, Northeast China. <i>Hydrological Sciences Journal</i> , 2020, 65, 1752-1765.	1.2	2

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73	Optimal allocation model of the water resources in Harbin under representative concentration pathway scenarios. <i>Water Science and Technology: Water Supply</i> , 2020, 20, 2903-2914.	1.0	2
74	Study on the Agricultural Crop Drought Index Based on Weights of Growth Stages. <i>Hydrological Processes</i> , 0, , .	1.1	2
75	Fractal dimension estimation of groundwater depth series of well irrigation area in Sanjiang Plain based on continuous wavelet transform. , 2010, , .		1
76	Ameliorating Effects of Soil Aggregate Promoter on the Physicochemical Properties of Solonchetses in the Songnen Plain of Northeast China. <i>Sustainability</i> , 2022, 14, 5747.	1.6	1
77	The Complexity Measure of Groundwater Depth Series in Sanjiang Plain Based on Approximate Entropy. , 2009, , .		0
78	Analysis of the Appropriate Development Scale of Regional Paddy Field Under the Restriction of Water Resources. <i>Agricultural Research</i> , 2016, 5, 324-333.	0.9	0
79	Study on the Change in Freezing Depth in Heilongjiang Province and Its Response to Winter Half-Year Temperature. <i>Journal of Applied Meteorology and Climatology</i> , 2022, , .	0.6	0